

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1310738

Luminaire Tested: LDSQA3D20R659035D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R659035D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

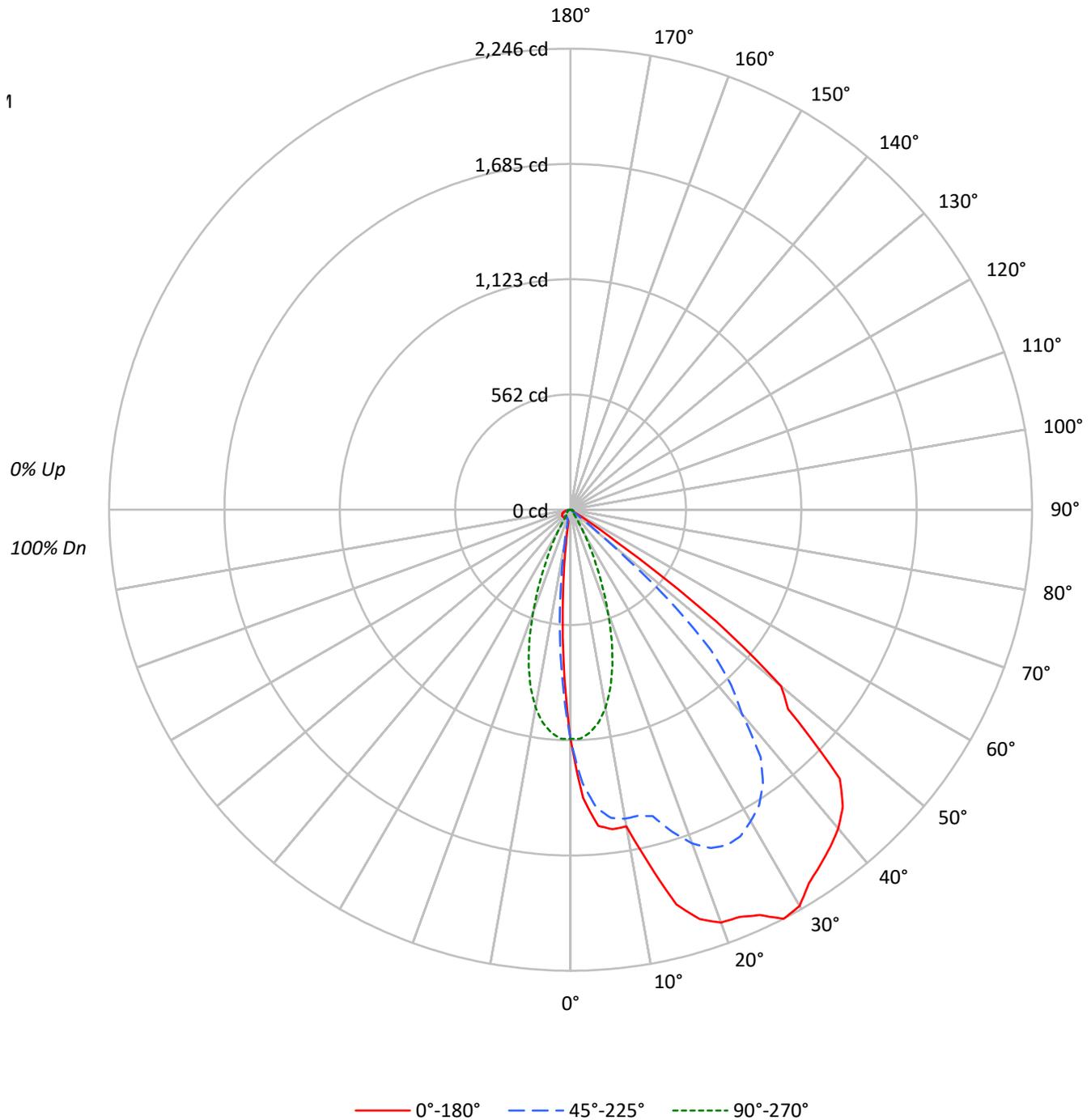
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1673.0 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100	
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90	
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	88	85	83	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	81	77	74	72	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	74	70	67	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58	
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	63	58	54	53	
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	58	53	49	48	
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	54	49	45	43	
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	40	
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	47	42	38	36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	192235	192235	192235	192235	192235
5°	267204	252181	188163	103400	72731
10°	273949	267251	171172	28890	10650
15°	354938	275577	140107	9307	8986
20°	392246	317048	97503	8284	8596
25°	413954	342599	55165	7924	8589
30°	443251	348512	24898	7955	8989
35°	444857	343225	8031	8410	9860
40°	455757	291592	5463	8993	10949
45°	451389	235011	5504	9742	11861
50°	358224	55435	5600	10717	13504
55°	85094	3123	5735	12010	15133
60°	2997	3582	6579	12572	16154
65°	3545	3545	6357	13448	17727
70°	2618	3525	6143	13143	18379
75°	2329	3460	5789	13907	18499
80°	1686	3471	6943	13786	18943
85°	3359	6916	6916	13832	17191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 45°
 Luminance: 452241 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	5.6
10°-20°	245.3	14.7
20°-30°	385.3	23.0
30°-40°	440.8	26.3
40°-50°	354.3	21.2
50°-60°	115.2	6.9
60°-70°	20.5	1.2
70°-80°	13.5	0.8
80°-90°	4.8	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	723.8	43.3
0°-40°	1164.6	69.6
0°-60°	1634.2	97.7
0°-90°	1673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1673.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1116	1116	1116	1116	1116	
5°	1546	1459	1088	598	421	146
15°	1991	1546	786	52	50	555
25°	2178	1803	290	42	45	1015
35°	2116	1632	38	40	47	1329
45°	1853	965	23	40	49	1333
55°	283	10	19	40	50	405
65°	9	9	16	33	44	8
75°	4	5	9	21	28	4
85°	2	4	4	7	9	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2
2.5°	1404.8	1399.6	1406.5	1394.3	1392.6	1380.4	1373.5	1370.0	1354.4	1333.5	1314.4
5°	1545.6	1524.7	1530.0	1528.2	1519.5	1514.3	1507.4	1498.7	1477.8	1458.7	1434.3
7.5°	1569.9	1552.6	1556.0	1557.8	1552.6	1550.8	1549.1	1545.6	1531.7	1514.3	1493.4
10°	1566.5	1549.1	1547.3	1542.1	1536.9	1538.6	1538.6	1538.6	1535.2	1528.2	1521.3
12.5°	1768.1	1743.8	1738.6	1702.1	1669.0	1611.7	1575.2	1540.4	1524.7	1526.5	1521.3
15°	1990.7	1988.9	1971.6	1936.8	1881.2	1829.0	1745.5	1683.0	1603.0	1545.6	1521.3
17.5°	2091.5	2089.8	2074.1	2044.6	2004.6	1955.9	1895.1	1822.0	1733.4	1644.7	1571.7
20°	2140.2	2152.4	2135.0	2110.6	2072.4	2027.2	1969.8	1903.8	1820.3	1729.9	1643.0
22.5°	2147.2	2162.8	2147.2	2129.8	2102.0	2072.4	2023.7	1955.9	1870.7	1783.8	1698.6
25°	2178.4	2183.7	2150.6	2128.0	2102.0	2081.1	2042.8	1983.7	1896.8	1802.9	1719.5
27.5°	2246.3	2223.7	2154.1	2122.8	2098.5	2079.3	2042.8	1982.0	1888.1	1792.5	1705.6
30°	2228.9	2220.2	2159.3	2129.8	2108.9	2089.8	2044.6	1966.3	1853.3	1752.5	1662.1
32.5°	2157.6	2175.0	2154.1	2143.7	2133.2	2108.9	2042.8	1936.8	1809.9	1707.3	1585.6
35°	2115.9	2136.7	2138.5	2138.5	2126.3	2089.8	2011.5	1893.3	1766.4	1632.5	1469.1
37.5°	2074.1	2091.5	2102.0	2108.9	2091.5	2039.4	1940.3	1834.2	1695.1	1519.5	1232.7
40°	2027.2	2039.4	2048.1	2051.5	2025.5	1957.6	1867.2	1747.3	1590.8	1297.0	1100.5
42.5°	1961.1	1968.1	1966.3	1964.6	1936.8	1862.0	1776.8	1651.7	1342.2	1156.2	918.0
45°	1853.3	1846.4	1856.8	1856.8	1820.3	1764.7	1651.7	1408.3	1201.4	964.9	591.1
47.5°	1436.1	1441.3	1491.7	1573.4	1623.8	1608.2	1455.2	1232.7	1010.1	632.8	196.5
50°	1337.0	1331.8	1333.5	1342.2	1347.4	1303.9	1194.4	1041.4	667.6	206.9	13.9
52.5°	897.1	902.3	942.3	1034.5	1064.0	1032.7	928.4	695.4	243.4	13.9	12.2
55°	283.4	302.5	325.1	373.8	459.0	512.9	502.5	246.9	15.6	10.4	12.2
57.5°	10.4	10.4	13.9	24.3	46.9	76.5	80.0	15.6	12.2	12.2	12.2
60°	8.7	8.7	8.7	8.7	8.7	8.7	10.4	10.4	10.4	10.4	10.4
62.5°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	10.4	10.4	10.4	10.4
65°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	10.4
67.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.7	8.7	8.7	8.7
70°	5.2	5.2	5.2	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.7
72.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.0	7.0	7.0
75°	3.5	3.5	3.5	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.2	5.2	5.2
80°	1.7	1.7	1.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	5.2
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5
87.5°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2
2.5°	1303.9	1283.1	1241.4	1116.2	985.8	855.4	773.7	752.8
5°	1406.5	1382.2	1323.1	1088.4	824.1	598.1	469.4	420.7
7.5°	1469.1	1439.5	1370.0	1044.9	641.5	347.7	208.6	166.9
10°	1496.9	1470.8	1392.6	978.8	464.2	165.2	73.0	60.9
12.5°	1509.1	1488.2	1401.3	891.9	302.5	73.0	53.9	52.2
15°	1514.3	1491.7	1397.8	785.8	172.1	52.2	50.4	50.4
17.5°	1519.5	1493.4	1377.0	664.1	95.6	48.7	46.9	48.7
20°	1561.3	1486.5	1340.5	532.0	62.6	45.2	45.2	46.9
22.5°	1603.0	1484.8	1276.1	406.8	48.7	43.5	45.2	45.2
25°	1616.9	1467.4	1194.4	290.3	41.7	41.7	43.5	45.2
27.5°	1590.8	1416.9	1084.9	196.5	36.5	41.7	43.5	45.2
30°	1530.0	1331.8	952.7	125.2	34.8	40.0	43.5	45.2
32.5°	1416.9	1163.1	805.0	74.8	33.0	40.0	45.2	45.2
35°	1190.9	975.3	638.1	38.2	33.0	40.0	45.2	46.9
37.5°	1041.4	813.7	445.1	26.1	33.0	40.0	45.2	46.9
40°	864.1	587.6	186.0	24.3	33.0	40.0	45.2	48.7
42.5°	598.1	255.6	29.6	22.6	31.3	40.0	46.9	48.7
45°	215.6	33.0	13.9	22.6	31.3	40.0	46.9	48.7
47.5°	19.1	12.2	13.9	22.6	31.3	40.0	46.9	50.4
50°	12.2	12.2	12.2	20.9	31.3	40.0	46.9	50.4
52.5°	12.2	12.2	12.2	20.9	29.6	40.0	48.7	50.4
55°	12.2	12.2	12.2	19.1	29.6	40.0	46.9	50.4
57.5°	12.2	12.2	13.9	19.1	29.6	38.2	46.9	48.7
60°	12.2	12.2	12.2	19.1	27.8	36.5	45.2	46.9
62.5°	10.4	12.2	12.2	17.4	26.1	34.8	43.5	45.2
65°	10.4	10.4	12.2	15.6	24.3	33.0	40.0	43.5
67.5°	8.7	10.4	10.4	13.9	20.9	29.6	36.5	40.0
70°	8.7	8.7	8.7	12.2	19.1	26.1	34.8	36.5
72.5°	7.0	8.7	8.7	10.4	15.6	22.6	29.6	33.0
75°	7.0	7.0	7.0	8.7	13.9	20.9	26.1	27.8
77.5°	5.2	5.2	7.0	7.0	12.2	15.6	22.6	24.3
80°	5.2	5.2	5.2	7.0	8.7	13.9	17.4	19.1
82.5°	3.5	3.5	3.5	5.2	7.0	8.7	12.2	13.9
85°	3.5	3.5	3.5	3.5	5.2	7.0	8.7	8.7
87.5°	1.7	1.7	1.7	3.5	3.5	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)